UNCLASSIFIED

EXHIBIT R-2	2, RDT&E B	udget Item .	Justification				DATE:			
								JU	NE 2001	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NO	MENCLATUR	Ė						
RESEARCH DEVELOPMENT TEST & EVALUATION	NTDS Imp	rov./ Comm	on C&D / 06	604518N						
COST (\$ in Millions	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
Total PE Cost	7.715	3.686	5.392						CONT	CONT
NTDS Software Improvement/Common C&D/K1604	7.715	3.686	5.392						CONT	CONT
Quantity of RDT&E Articles										

^{*} CC&D program was funded in FY00/01 under the PE: 0603582N, Combat Systems Integration (CSI), Project Unit: S0164

A. Mission Description and Budget Item Justification

FY00-FY01 The ACDS Block 1 program replaces the vintage Naval Tactical Data System (NTDS) operating systems and applications algorithms and implements advanced concepts for Tactical Data Systems upgrades for surface combatants in response to future threats, operational deficiencies and new and existing operational requirements. The increased emphasis on joint operations and littoral warfare has improved the importance of ACDS Block 1's joint operability and improved littoral warfare capabilities. The program's objective is to develop integrated real time command and control systems that will increase ship's operational capabilities; promo standardization and introduce new shipboard tactical displays and support equipment; and provide integration between sensor/weapons system which are organic to and outside the battle force. This program provides for significant Combat Direction System (CDS) improvements including implementation of the Joint Tactical Information Data System (JTIDS/Tactical Data Information Link Joint (TADILJ) (LINK 16) message standard to support interoperability/joint operations with U.S. Navy/Army/Air Force/Marine and NATO forces; implementation of the Aegis Tactical Executive System (ATES); and integration and interface with the Command and Control Processor (C2P), the Cooperative Engagement Capability (CEC), and Ship's Self Defense System (SSDS).

FY02-07 Common Command and Decision (CC&D) capability is a pre-planned product improvement (P3-I) to the Aegis Weapon System and the Ship Self-System (SSDS) Mk 2 that replaces the command and decision capability presently in these systems with a common computer program. This effort will avoid future life-cycle costs by reducing the number of computer programs that must be maintained, enable the navy to field new or modified warfighting capability by eliminating the redundant, conflicting processing present in existing systems. CC&D is a critical step toward developing systems that will resolve long-term interoperability problems and achieve improvements in the air picture.

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Exhibit R-2, RDT&E Budget Item Justification (Exhibit R-2, page 1 of 6)

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EXHI	BIT R-2, RDT&E Budget Item Justification		DATE:
			JUNE 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NAME AND NUMBER	PROJECT NAME AND NUMBER:	
RDT&E, N/ BA 5	CIC Conversion/ 0604518N	NTDS Improv./ Commo	on C&D / 0604518N Project K1604

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

- 1. (U) FY 2000 Accomplishments:
- (U) (\$3.343) Participated in CEC Baseline 3 DT/OT events in support of CEC's TECHEVAL and OPEVAL.
- (U) (\$1.551) Corrected software and hardware trouble reports associated with shipboard deliveries of ACDS Block 1 Level 2.1.x onboard CVN 68 and LHD 7, and upgraded CVN 67, CVN 69 and LHD 1 with 2.1.x software build.
- (U) (\$2.821) Completed interoperability corrections & conducted Navy and Joint Link Certification, followed by a Battle Group Testing of ACDS Block 1 and CEC Baseline 2.
- 2. (U) FY 2001 Plan:
- (U) (\$3.606) Support TECHEVAL and OPEVAL with CEC and correct any deficiencies.
- (U) (\$0.080) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.
- 3. (U) FY 2002 Plan:
- (U) (\$3.450) Continue Design Engineering.
- (U) (\$0.650) Continue Acquisition Management Support.
- (U) (\$1.292) Continue Technical Management Support.

FY 2001 President's Budget Submit: Appropriated Value:	FY 2000 8.082 8.126	FY 2001 3.720 3.720	FY 2002 0.000
Adjustments to FY2000/2001 Appropriated Value/	0.414	-0.034	F 202
FY2001 President's Budget: FY 2002 PRES Budget Submit:	-0.411 7.715	-0.034 3.686	5.392 5.392

Funding:

FY 2000: Funding decrease due to Small Business Innovation Research adjustment (\$-0.157) and minor pricing adjustments (-\$0.254).

FY2001: Funding decrease due to Proportionate Rescission (-\$0.034).

FY2002: Funding increase due to transfer of Common C&D from PE0603582N/S0164 (+\$13.700) and minor pricing adjustments (+0.016), reductions to off-set Navy Priorities (-\$8.300) and reduction for NWCF rates (-\$0.024).

Schedule: N/A

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EXHIBIT R-2, RDT&E Budget Item Justification

									JUNE 200	1		
APPROPRIATION	ON/BUDGET ACTI	VITY	PROGRAM E	LEMENT NAME AN	ND NUMBER	PROJECT NAME AND NUMBER:						
RDT&E, N/ E	BA 5		CIC Conve	ersion/ 0604518	BN	NTDS Improv./ Common C&D / 0604518N Project K1604						
C. Other P	rogram Funding	Summary										
O&M,N 07	08017N/46N80	Ship System Ta	ctical						To			
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Complete	<u>Total</u>	Cost	
NTDS	13 909	13 922	14 137						CC	DNT.	CONT	

DATE:

D. Acquisition Strategy:

NTDS: ACDS Block 1 program will be completed in FY 2001 upon the completion of CEC Baseline 2 TECHEVAL and OPEVALs.

Until then the hardware and software corrections will be made by Raytheon Systems Company via a sole source contract, N00024-97-C-5466. The life cycle maintenance and software support agent for ACDS Block 1 is NAVSEA Damneck.

Common C&D: Three Technical Instructions were awarded to Lockheed Martin Government Electronic Systems (Moorestown, NJ), Raytheon Naval and Maritime Systems (San Diego, CA), and Digital Systems Resource (Fairfax, VA) to conduct Design Engineering to define the CC&D program in support of Milestone I/II Decision in FY 2005. This will provide CC&D capability to Aegis and Ship Self Defense System (SSDS) Surface Ships in FY 2010.

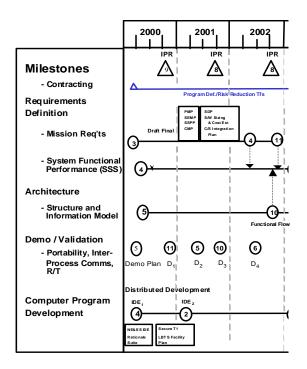
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RDT&E, N/ BA 5	CIC Conversion/ 0604518N	NTDS Improv./ Common C&D / 0604518N Project K1604
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NAME AND NUMBER	PROJECT NAME AND NUMBER:
		JUNE 2001
	EXHIBIT R-2, RDT&E Budget Item Justification	DATE:

E. Schedule Profile:

Common C&D Program Schedule



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								DATE:				
Exhibit R-3 Cost Analysis (page								JUNE 20	01			
APPROPRIATION/BUDGET ACTIV	OGRAM ELEMENT			PROJECT N	IAME AND NU	JMBER						
RDT&E,N/BA 5 CIC Conversion/0604518N						NTDS Imp	rov./ Comi	mon C&D / 0	604518N Pr	roject K1604		
Cost Categories	Contract	Performing	Total		FY00		FY 01		FY 02			
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Target Value
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
Primary Product Development	C/CPAF	Hughes Aircraft Co	106.521	0.000	N/A	0.000	N/A	0.000	N/A	0.000	106.521	106.521
Primary Product Development	SS/CPFF	Hughes Aircraft Co	17.806	0.000	N/A	0.000	N/A	0.000	N/A	0.000	17.806	48.418
Primary Product Development	SS/CPFF	Raytheon Systems	S Co. 5.897	5.422	10/99	2.551	10/00	0.000	N/A	0.000	13.870	25.945
Govt. Engineering & Formal Test	WR	SSC-SD	43.326	0.000	N/A	0.000	N/A	0.000	N/A	0.000	43.326	N/A
Govt. System Eng./ILS/Training/Tes	t WR	NSWC/PHD	2.139	0.194	10/99	0.000	10/00	0.000	N/A	0.000	2.333	N/A
Miscellaneous/Government	VAR	Various	0.677	0.249	10/99	0.511	10/00	0.000	N/A	0.000	1.437	N/A
Miscellaneous/Contractors	VAR	Various	10.345	0.300	10/99	0.000	10/00	0.000	N/A	0.000	10.645	N/A
Software Development	C/CPFF	Raytheon Systems	0.000	0.000	N/A	0.000	N/A	1.150	10/01	CONT.	CONT.	
Software Development	C/CPFF	Lockheed Martin	0.000	0.000	N/A	0.000	N/A	1.150	10/01	CONT.	CONT.	
Software Development	C/CPFF	DSR	0.000	0.000	N/A	0.000	N/A	1.150	10/01	CONT.	CONT.	
System Engineering	WR/RC	NSWC, DD	0.000	0.000	N/A	0.000	N/A	0.816	10/01	CONT.	CONT.	
Subtotal Product Development			186.711	6.165		3.062		4.266		CONT.	CONT.	

Remarks:

N00024-97-C-5466 was awarded as a CPAF/CPFF contract, with CLIN 0007 for ACDS Block 1 program specific efforts was a CPFF/LOE CLIN.

Test Facilityl/Simulation Upgrd./Lic	VAR	Various	13.134	0.906	N/A	0.149	N/A	0.000	N/A	0.000	14.189	N/A
Training Development											0.000	
Integrated Logistics Support											0.000	
Configuration Management											0.000	
Technical Data											0.000	
GFE											0.000	
Subtotal Support			13.134	0.906		0.149		0.000		0.000	14.189	

Remarks:

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Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 5 of 6)

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								DATE:					
Exhibit R-3 Cost Analysis (pag	ge 2)									JUNE 20	01		
APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT						PROJECT NAME AND NUMBER							
RDT&E, N		С	IC Conversion/ 0604	518N		NTDS Imp	orov./ Comn	non C&D / (604518N P	roject K1604			
Cost Categories	Contract	Performing	Total		FY 00		FY 01		FY 02				
(Tailor to WBS, or System/Item	Method	Activity &	PY s	FY 00	Award	FY 01	Award	FY 02	Award	Cost to	Total	Target Valu	
Requirements)	& Type	Location	Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract	
DT/OT Test, Test Spt., IV&V Efforts	VAR	Various	21.137	0.439	10/99		10/00	0.000	N/A	0.000	21.576	N/A	
Operational Test & Evaluation											0.000		
Tooling											0.000		
GFE											0.000		
Subtotal T&E			21.137	0.439		0.000		0.000		0.000	21.576		
			_										
Resource Management Support	VAR	Various	0.688	0.000	10/99	0.000	10/00	0.000	N/A	0.000	0.688	3.944	
Government Engineering Support		VARIOUS	0.000	0.130	N/A	0.400	N/A						
Contractor Engineering Support		VARIOUS	0.000	0.000	N/A	0.000	N/A	0.400	10/01	CONT.	CONT.		
Program Management Support		VARIOUS	0.000	0.000	N/A	0.000	N/A	0.696	10/01	CONT.	CONT.		
Travel	PD	NAVSEA	0.000	0.000	N/A	0.000	N/A	0.030	10/01	CONT.	CONT.		
Travel	VAR	Various	0.000	0.075	10/99	0.075	10/00	0.000	N/A	0.000	0.150	3.944	
Subtotal Management			0.688	0.205		0.475		1.126		CONT.	CONT.		
Remarks: N00024-95-C-5433 was not award	led specific	cally for ACDS Blo	ck 1, support also include:	s SSDS MK 1	support efforts								
										CONT.	CONT.		
Total Cost			221.670	7.715		3.686		5.392		CONT.	CONT.		

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Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 6 of 6)

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